COMMUNICATION
SUPPORT

PCI ADAPTER
WIRELESS 150N
150 MBPS

FULL ENGLISH MANUAL

NI-707544

ICIDU
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FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This device may not cause harmful interference.
2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: The manufacturer is not responsible for any radio or tv interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC RF RADIATION EXPOSURE STATEMENT

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

CE MARK WARNING

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

NATIONAL RESTRICTIONS

This device is intended for home and office use in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Country	Restriction	Reason/remark
Bulgaria		General authorization required for outdoor use and public service
France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Italy		If used outside of own premises, general authorization is required
Luxembourg	None	General authorization required for network and service supply(not for spectrum)
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation		Only for indoor applications

Note: Please don’t use the product outdoors in France.

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PACKAGE CONTENTS

The following items should be found in your package:

- One NI-707544 Wireless PCI Adapter 150N
- Quick Installation Guide
- One Resource CD for NI-707544 Wireless PCI Adapter 150N, including:
  - Wireless N Client Utility and Drivers
  - User Guide

☞ **Note:**

Make sure that the package contains the above items. If any of the listed items is damaged or missing, please contact with your distributor.

CONVENTIONS

The ‘Adapter’ mentioned in this user guide stands for NI-707544 Wireless PCI Adapter 150N without any explanations.

PRODUCT OVERVIEW

1.1 INTRODUCTION

The adapter is an 802.11n client device designed to deliver a high-speed and unrivaled wireless performance for your desktop. With a faster wireless connection, you can get a better Internet experience, such as downloading, gaming, video streaming.

With the 802.11n technology, higher throughput improvements using MIMO (multiple input, multiple output antennas), the NI-707544 Wireless PCI Adapter 150N's auto-sensing capability allows high packet transfer rate of up to 150Mbps for maximum throughput. It has good capability on anti-jamming, and it can also interoperate with other wireless (802.11b) products. The adapter supports WEP, WPA and WPA2 encryption to prevent outside intrusion and protect your personal information from being exposed.

The adapter is easy to install and manage with the Quick Setup Wizard guiding you step-by-step through the installation process and the Wireless N Client Utility instructing you to quickly set up a wireless connection.

With unmatched wireless performance, reception, and security protection, the NI-707544 WIRELESS PCI ADAPTER 150N is the best choice for easily adding or upgrading wireless connectivity to your desktop.

1.2 FEATURES

- Complies with IEEE 802.11n, IEEE 802.11g, IEEE 802.11b standards
- Supports WPA/WPA2 data security, TKIP/AES encryption
- Supports high rate of up to 150Mbps for maximum throughput, supports automatically adjust to lower speeds due to distance or other operating limitations
- Provides 32-bit PCI interface
- Supports Ad Hoc and Infrastructure modes
- Good capability on anti-jamming
- Supports roaming between access points when configured under Infrastructure mode
- Easy to configure and provides monitoring information
- Supports Windows XP, Windows Vista and Windows 7
- Two antennas which are listed in a format of 2x2 for two receivers and two transmitters

1.3 HARDWARE OVERVIEW

LED status:

Status	Working Status
Off	The driver has not been installed; The adapter's radio has been disabled.
Flashing Slowly	The driver has been installed but no data is being transmitted or received.
Flashing Quickly	Data is being transmitted or received.

INSTALLATION

Please install the PCI adapter into your computer before installing the driver software from the Resource CD.

2.1 HARDWARE INSTALLATION

1. Turn off your computer and unplug the power cord from the computer.
2. Open the case and locate an available PCI slot. Remove the metal slot cover on the back of the PC. Keep the screws. Turn to your computer manufacturer for instructions if needed.
3. Insert the PCI adapter into the PCI slot. Make sure that all of its pins have touched the slot's contacts. Once the adapter has been firmly inserted, screw its fastening tab. Then, close your PC case.
4. Insert the power cable back into the computer and turn on your computer.

When the **Found New Hardware** wizard appears, click **Cancel**.

2.2 SOFTWARE INSTALLATION

The adapter's Setup Wizard will guide you through the installation procedures for Windows 7, Windows Vista, and Windows XP. The procedures in different systems are quite similar, therefore here takes the procedures in Windows XP for example.

1. Insert the Resource CD into your CD-ROM drive, and open the folder named NI-707544 WIRELESS PCI ADAPTER 150N. Double-click **Setup.exe** to start the installation, and then the following screen for preparing setup will appear.

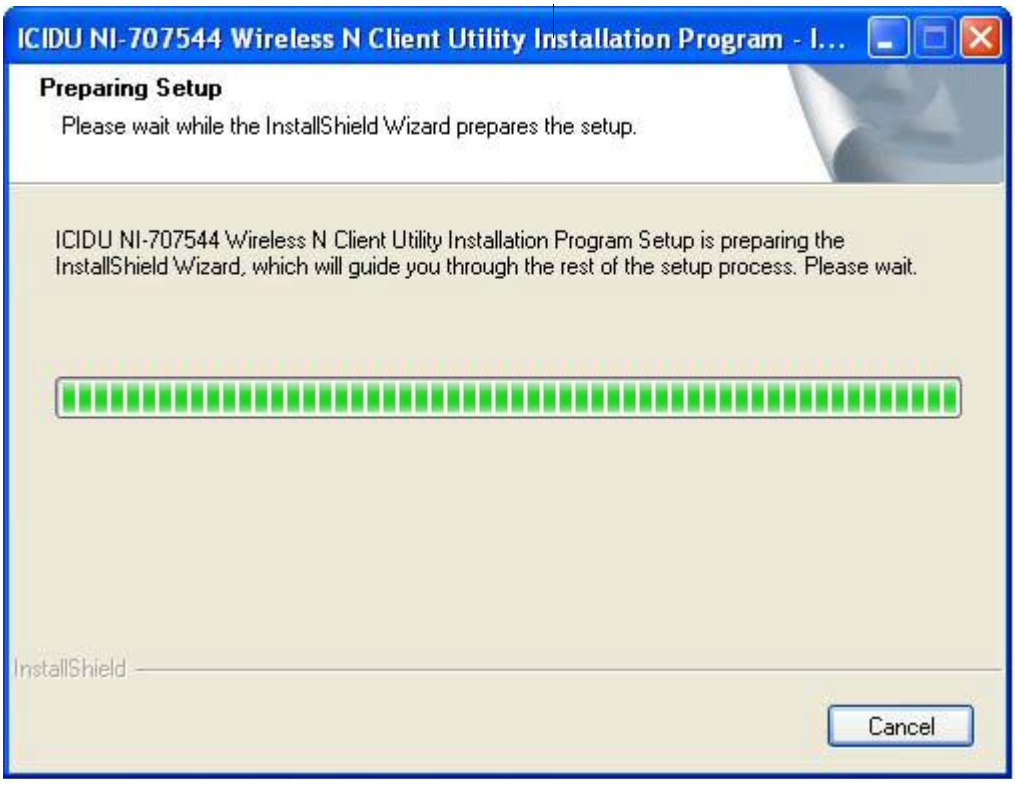
ICIDU NI-707544 Wireless N Client Utility Installation Program - I...
Preparing Setup
Please wait while the InstallShield Wizard prepares the setup.
ICIDU NI-707544 Wireless N Client Utility Installation Program Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.
InstallShield
Cancel

Figure 2-1

2. The **InstallShield Wizard** window will appear. Click **Next** to continue.

ICIDU NI-707544 Wireless N Client utility - InstallShield Wizard
Welcome to the InstallShield Wizard for ICIDU NI-707544 Wireless N Client utility
The InstallShield Wizard will install ICIDU NI-707544 Wireless N Client utility on your computer. To continue, click Next.
< Back
Next >
Cancel

Figure 2-2

3. Choose a setup type. It is recommended to select **Install Wireless N Client Utility and Driver**. Selecting **Install Driver Only** will only install driver. Click **Next** to continue.

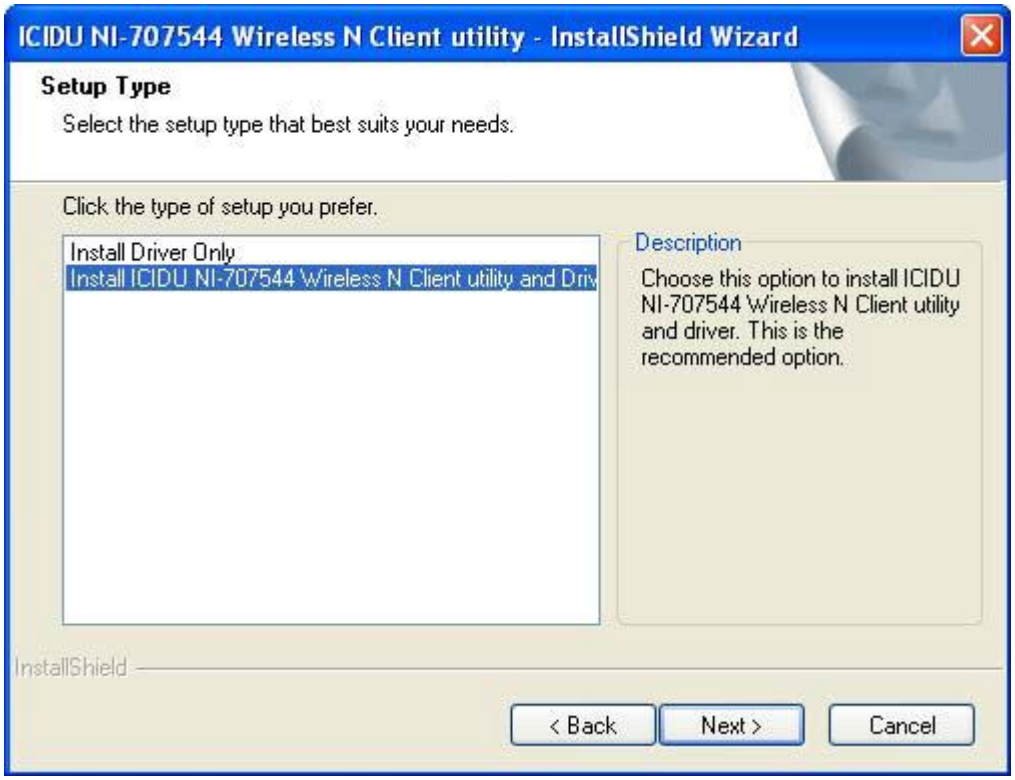
ICIDU NI-707544 Wireless N Client utility - InstallShield Wizard
Setup Type
Select the setup type that best suits your needs.
Click the type of setup you prefer.
Install Driver Only
Install ICIDU NI-707544 Wireless N Client utility and Driv
Description
Choose this option to install ICIDU NI-707544 Wireless N Client utility and driver. This is the recommended option.
InstallShield
< Back
Next >
Cancel

Figure 2-3

4. Click **Change** to specify the destination location for the software or you can leave it default. Click **Next** in the screen below to continue.

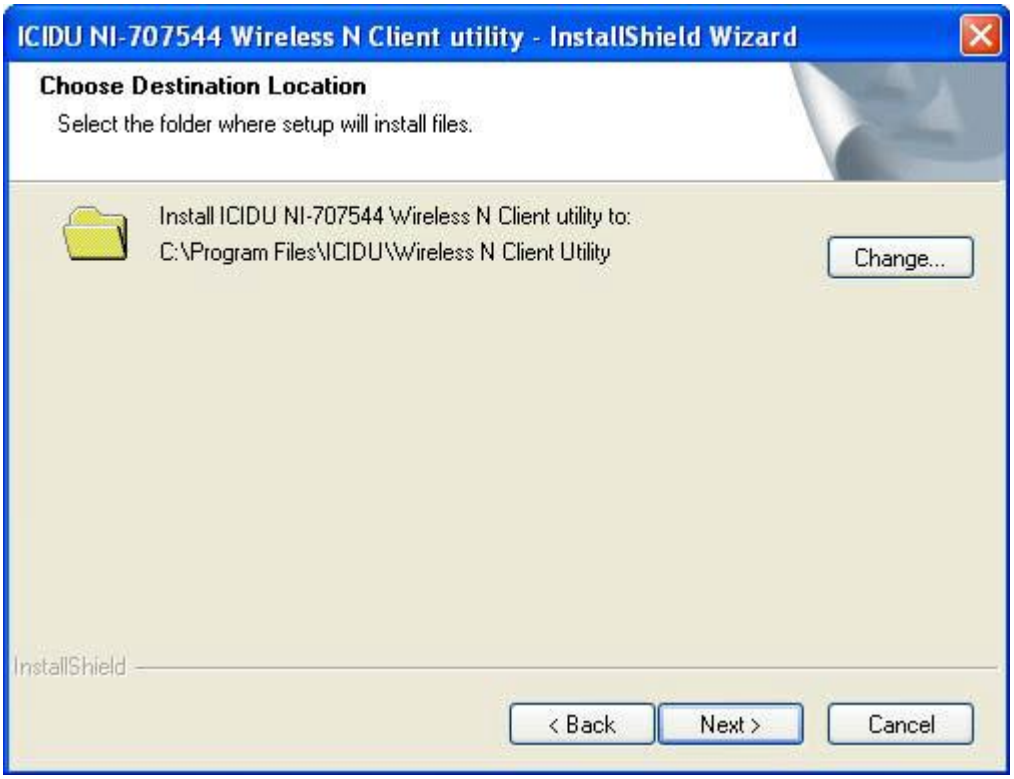
ICIDU NI-707544 Wireless N Client utility - InstallShield Wizard
Choose Destination Location
Select the folder where setup will install files.
Install ICIDU NI-707544 Wireless N Client utility to:
C:\Program Files\ICIDU\Wireless N Client Utility
Change...
InstallShield
< Back
Next >
Cancel

Figure 2-4

5. Click **Install** to continue the setup.

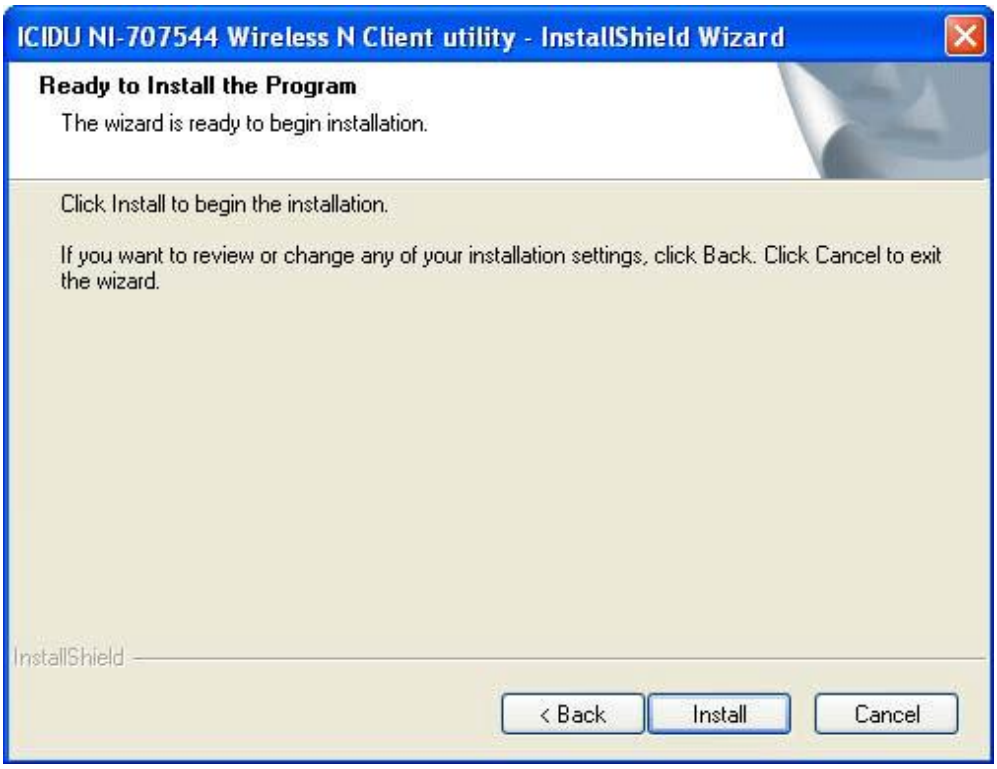
ICIDU NI-707544 Wireless N Client utility - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

Figure 2-5

6. The utility and drivers will install. This may take 1~2 minutes.

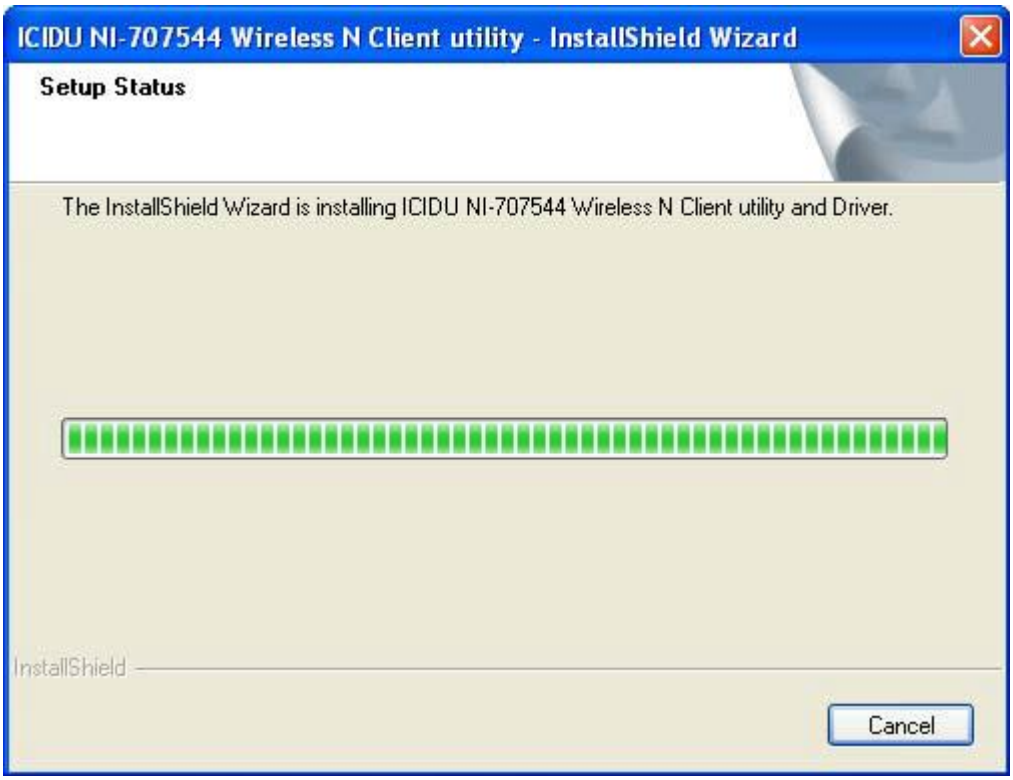
ICIDU NI-707544 Wireless N Client utility - InstallShield Wizard
Setup Status
The InstallShield Wizard is installing ICIDU NI-707544 Wireless N Client utility and Driver.
InstallShield
Cancel

Figure 2-6

7. If Windows XP warns about Windows Logo testing, click **Continue Anyway** to continue the installation.

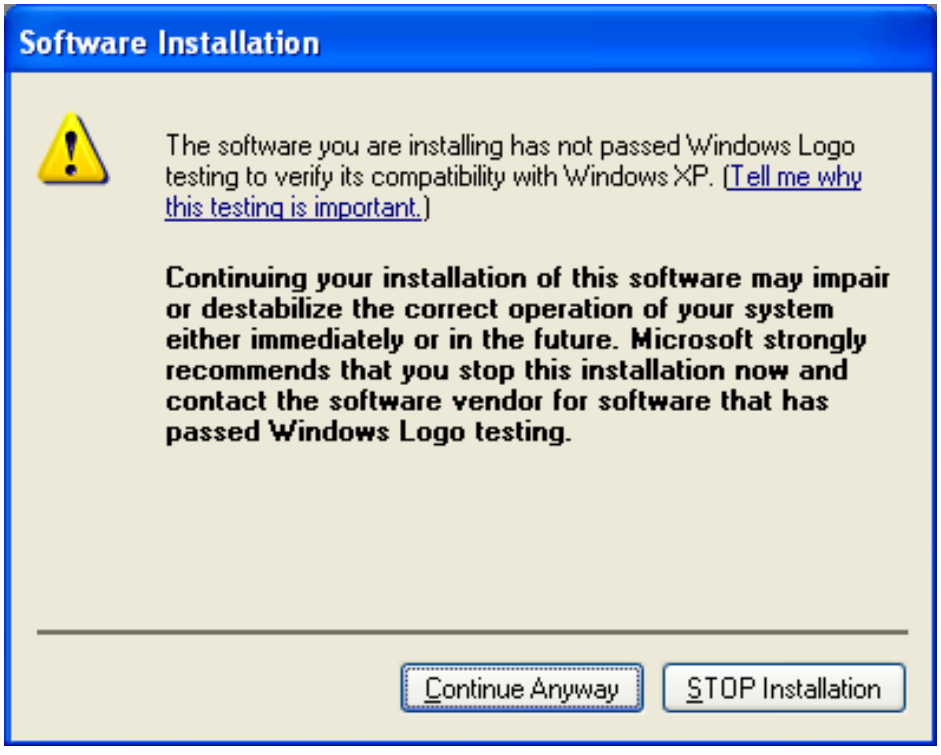
Software Installation
The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

Figure 2-7

8. After all the steps above, you will see the screen below. Click **Finish** to complete the setup.

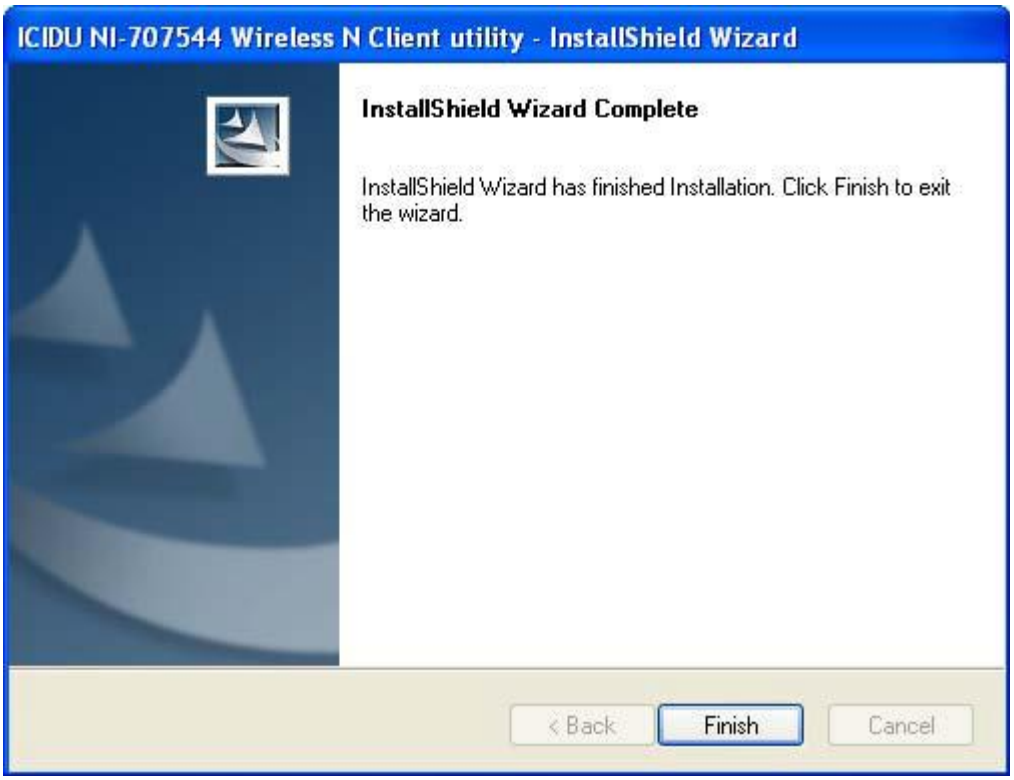
ICIDU NI-707544 Wireless N Client utility - InstallShield Wizard
InstallShield Wizard Complete
InstallShield Wizard has finished Installation. Click Finish to exit the wizard.
< Back
Finish
Cancel

Figure 2-8

9. After installation, the utility configuration page will automatically pop up as shown in the following figure and the icon will appear in your system tray. To connect to a network, please refer to Chapter 3 Connect to a Wireless Network.

CONNECT TO A WIRELESS NETWORK

With both the hardware and software successfully installed into your computer, you can quickly connect to a wireless network using one of the following methods.

- Method One:

To connect using Wireless N Client Utility

NI-707544 WIRELESS PCI ADAPTER 150N uses the Wireless N Client Utility as the management software. The utility provides you an easy interface to connect to a network and to change any settings related to the wireless adapter.

- Method Two:

To connect using WPS

By this method, you can connect to your network quickly on the condition that your router or access point supports WPS or QSS as is called by some other brands.

- Method Three:

To connect using Windows built-in wireless utility

Windows users may use the built-in wireless utility to connect to a wireless network. For specific operations, please go to To connect using Windows built-in wireless utility.

3.1 TO CONNECT USING WIRELESS N CLIENT UTILITY

1. After installation, the utility configuration page will automatically pop up on the screen. If the utility page does not pop up, you can also launch the utility by double-clicking on the icon on your desktop or the icon in your system tray.

Figure 3-1

2. The **Network** page will display all wireless networks that are available in your area. To connect to a network, simply highlight the wireless network name and click **Connect**.
   SSID (Service Set Identifier) is the name of the wireless network. The adapter will automatically connect to your target network next time if you tick **Connect automatically**.

Figure 3-2

3. If word **None** appears behind the SSID, this means the network to be connected is not security-enabled and you can connect to the network without entering a key. To prevent outside intrusion and safeguard your network, it is strongly recommended to set a password to your router or access point.

Figure 3-3

If there is a “lock” icon behind the SSID, this means the wireless network is secure and the

corresponding security type will display. You must know the encryption key/security settings to connect. Input the password which can be found on the configuration page of your router or access point, then click **OK** to continue. Or push the QSS/WPS button on your router if your router features the QSS/WPS function to quickly build a connection without having to enter a key.

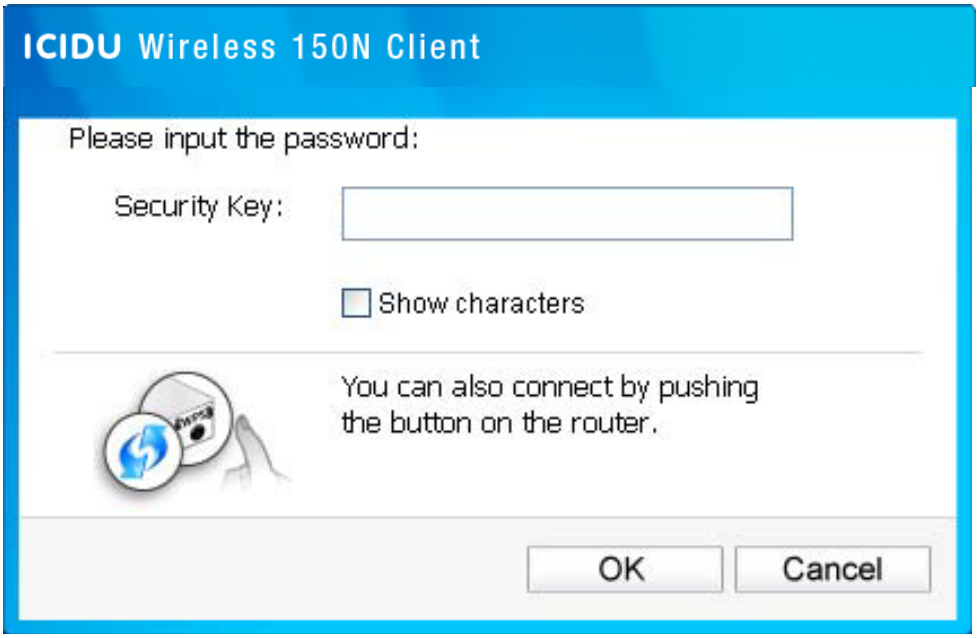

Figure 3-4

4. You have now successfully connected to your network. Click **Close** to enjoy the Internet.

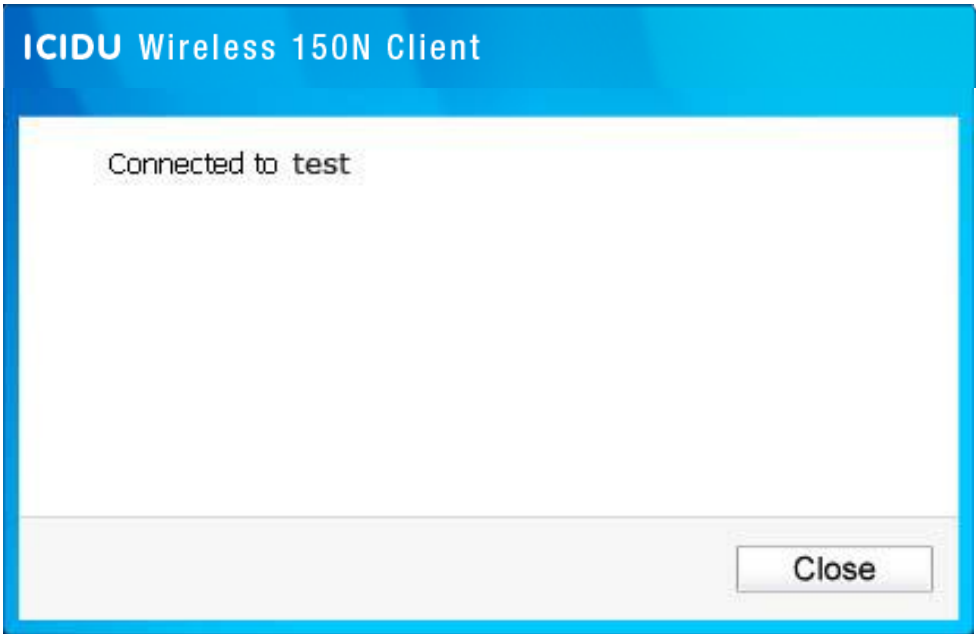

Figure 3-5

5. To view more information about the network currently connected, click **Status** in the tools section and the page will display information such as the network type, link quality and wireless mode.

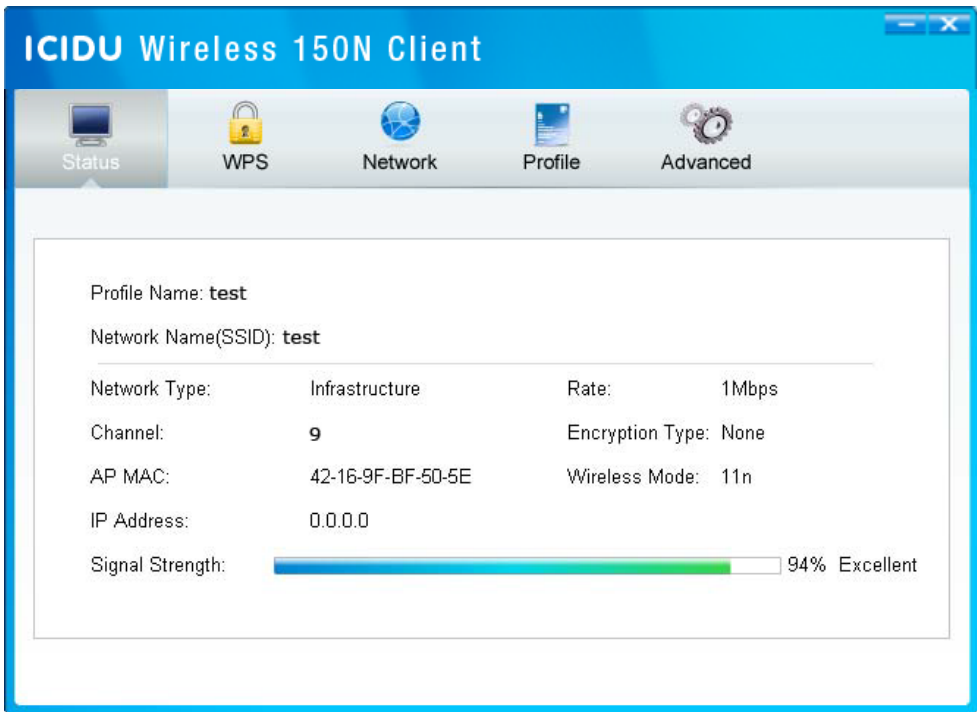

Figure 3-6

3.2 TO CONNECT USING WPS

WPS (Wi-Fi Protected Setup) function allows you to add a new wireless device to an existing network quickly.

If the wireless router supports Wi-Fi Protected Setup (WPS) or QSS, you can establish a wireless connection between wireless card and router using either Push Button Configuration (PBC) method or PIN method. Three WPS connection methods are listed in the following parts while the third method is only supported in Windows XP and Windows Vista.

3.2.1 PBC (PUSH BUTTON CONFIGURATION) METHOD

1. Press the WPS/QSS button on the back panel of the router.
2. Open Wireless N Client Utility and click **WPS** tab. Select **Push the button on my access point or wireless router** and then click **Connect**.

ICIDU Wireless 150N Client
Status
WPS
Network
Profile
Advanced
This application will guide you through configuring your wireless network.
Please choose a method to join a wireless network:
Push the button on my access point or wireless router.
Enter the PIN of my access point or wireless router.
Enter the PIN of this device into my access point or wireless router.
Connect

Figure 3-7

3. The adapter will be connecting to the target network.

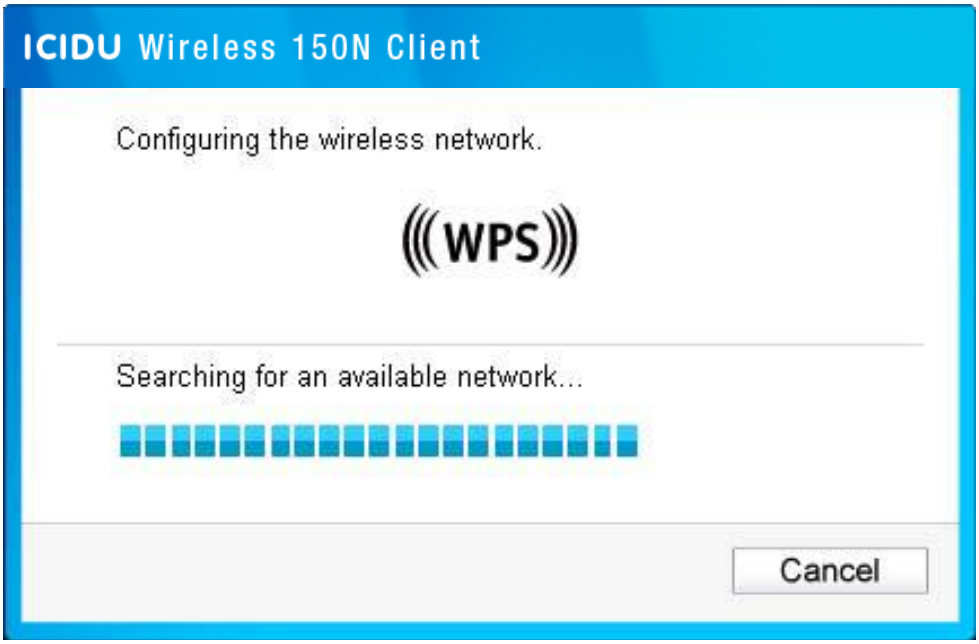

Figure 3-8

4. When the following window appears, you have successfully connected to the network.

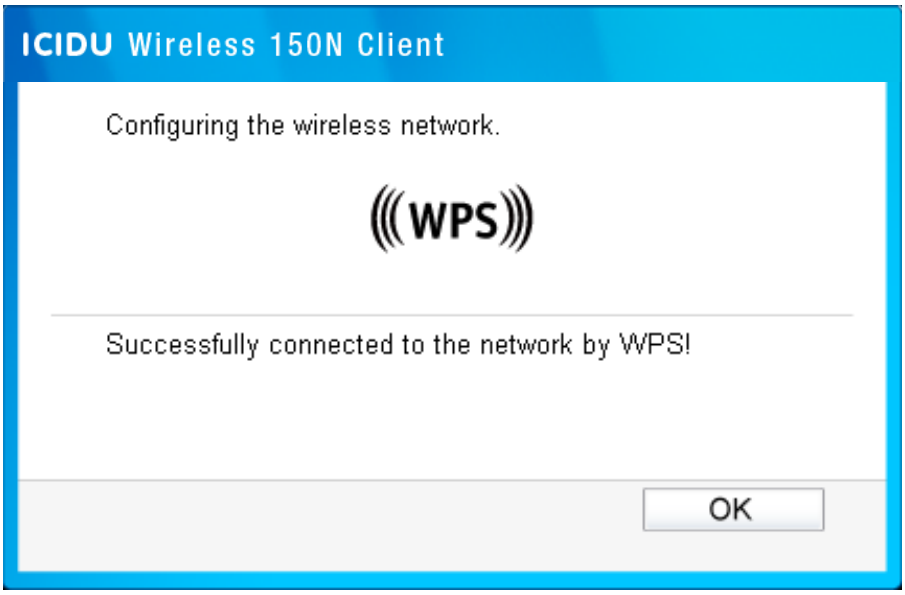

Figure 3-9

3.2.2 PIN METHOD

There are two ways to configure the QSS by PIN method:

1) Enter the PIN from your AP device.
2) Enter a PIN into your AP device.

Following are detailed configuration procedures of each way.

3.2.2.1 Enter the PIN from your AP device

1. Open Wireless N Client Utility and click **WPS** tab. Select **Enter the PIN of my access point or wireless router**. In the empty field beside PIN, enter the PIN labeled on the bottom of the router (here takes 13492564 for example). If you have generated a new PIN code for your router, please enter the new one instead. Click **Connect** to continue.

ICIDU Wireless 150N Client
Status
WPS
Network
Profile
Advanced
WPS
This application will guide you through configuring your wireless network.
Please choose a method to join a wireless network:
Push the button on my access point or wireless router.
Enter the PIN of my access point or wireless router.
PIN: 13492564
Enter the PIN of this device into my access point or wireless router
Connect

Figure 3-10

2. The adapter will be connecting to the target network.

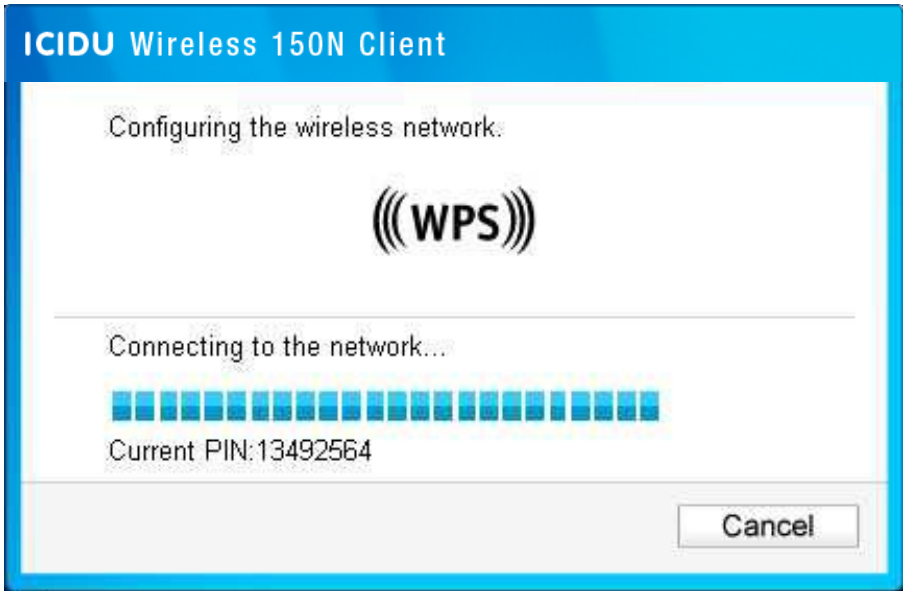

Figure 3-11

3. When Figure 3-9 appears, you have successfully connected to the network.

3.2.2.2 Enter a PIN into your AP device

This method is only available in Windows XP and Windows Vista.

1. Open Wireless N Client Utility and click **WPS** tab. Select **Enter the PIN of this device into my access point or wireless router**. In the field beside PIN, you will see the PIN value of the adapter which is randomly generated. Click **Connect** to continue.

ICIDU Wireless 150N Client
Status
WPS
Network
Profile
Advanced
WPS
This application will guide you through configuring your wireless network.
Please choose a method to join a wireless network:
Push the button on my access point or wireless router.
Enter the PIN of my access point or wireless router.
Enter the PIN of this device into my access point or wireless router.
PIN: 38334702
Connect

Figure 3-12

2. Open your router's Web-based Utility and click WPS/QSS link on the left of the main menu. Then click **Add device** and the following figure will appear. Enter the PIN value of the adapter in the empty field beside PIN and then click **Connect**.

Figure 3-13

3. When **Connect successfully** appears on the screen, the WPS configuration is complete. Or you can view the adapter's utility page to see whether the connection has been successful as shown in Figure 3-15.

Figure 3-14

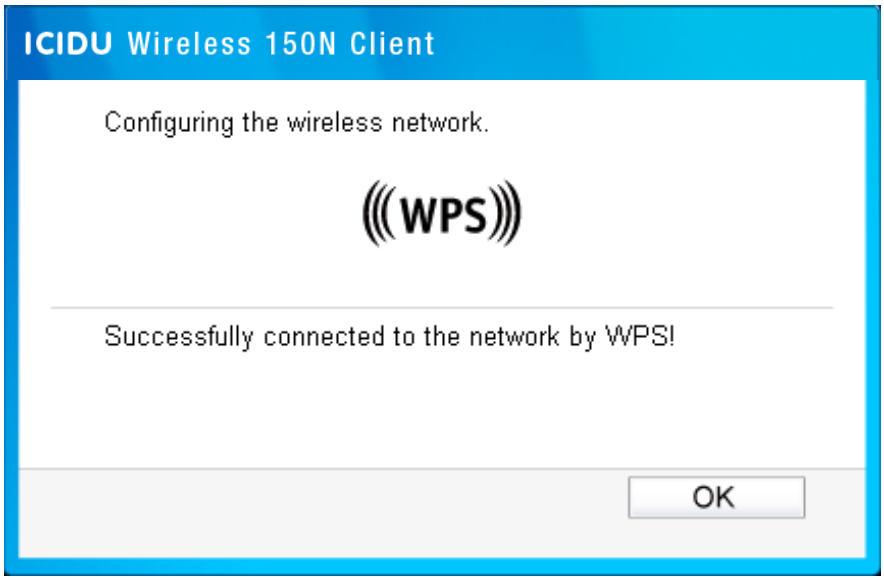

Figure 3-15

3.3 TO CONNECT USING WINDOWS BUILT-IN WIRELESS UTILITY

3.3.1 IN WINDOWS 7

Windows 7 users may use the built-in wireless utility. Follow the steps below.

1. Left-click the wireless icon in your system tray (lower-right corner). The utility will display any available wireless networks in your area. Highlight the wireless network (displayed using the SSID) to be connected and then click **Connect**.

Figure 3-16

2. If the network you would like to connect is security-enabled, enter the same security key or passphrase that is on your router. Or push the WPS button (other brands may call it QSS) on the router or access point (You will be prompted to push the button on the window if WPS/QSS function is supported as shown in the figure below). If the network to be connected is not secure, the connection will be built without entering a key.

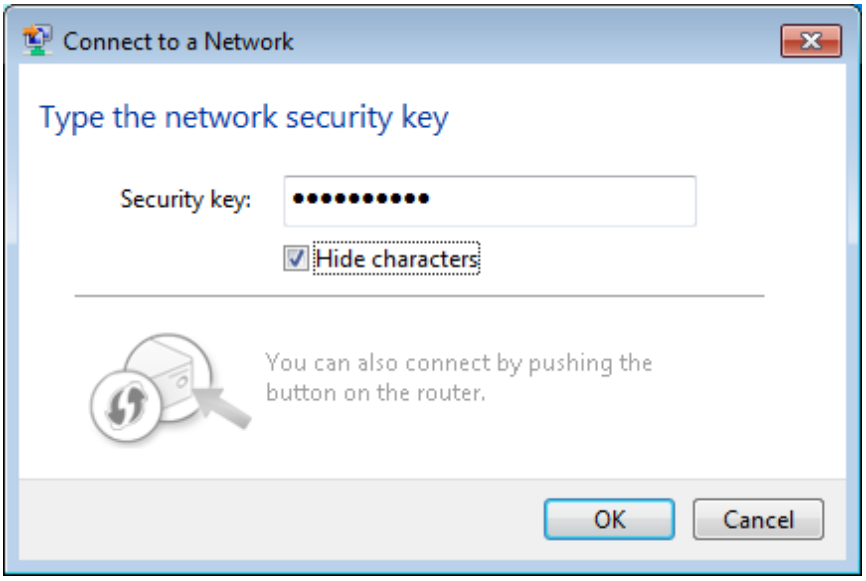

Figure 3-17

3. You have now successfully connected to the network.

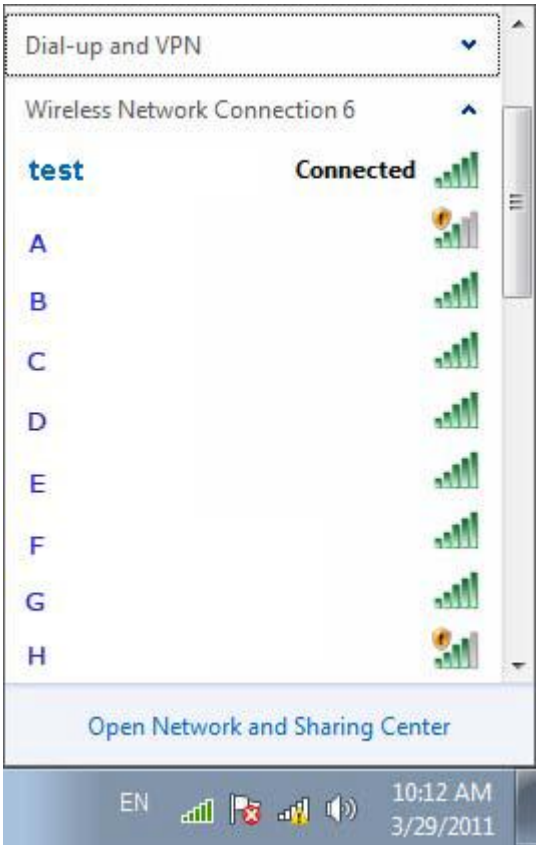

Figure 3-18

3.3.2 IN WINDOWS VISTA

Windows Vista users may use the built-in wireless utility. Follow the steps below.

1. Open the wireless utility by right-clicking on the wireless computer icon in your system tray as shown in the figure below. Select **Connect to a network**.

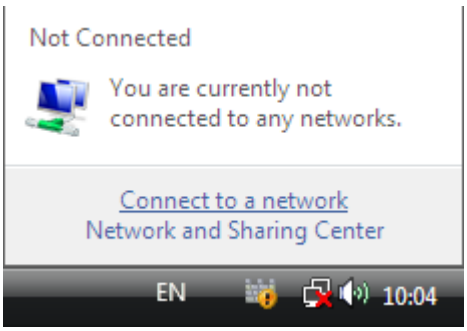

Figure 3-19

2. The utility will display any available wireless networks in your area. Highlight the wireless network you would like to connect and then click **Connect**.

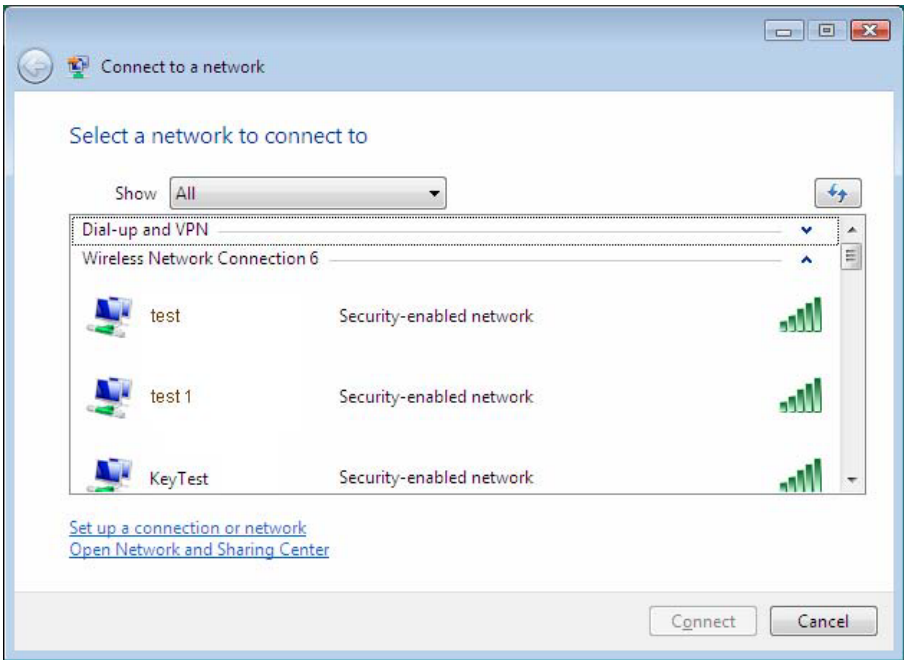

Figure 3-20

3. If the network you would like to connect is security-enabled, enter the same security key or passphrase that is on your router. If the network to be connected is not secure, the connection will be built without entering a key.

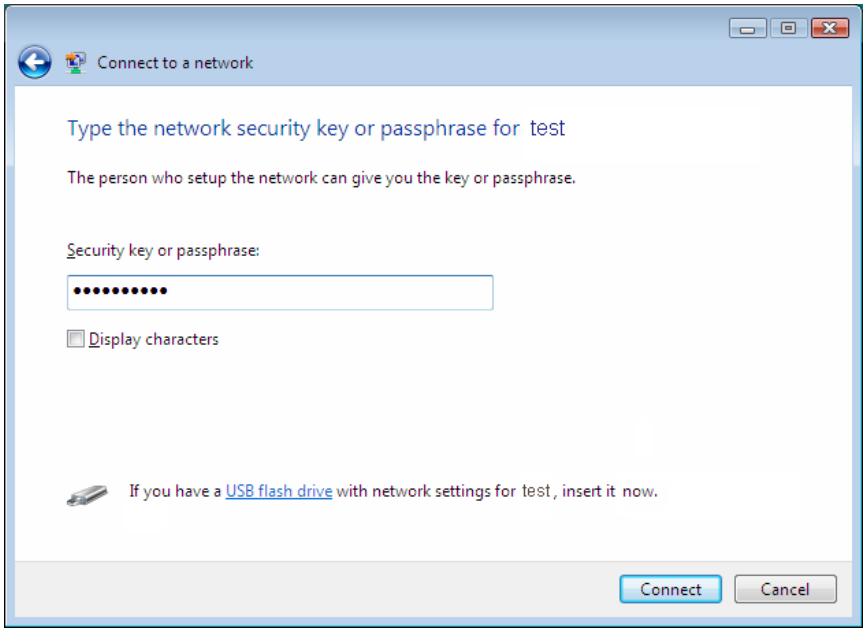
Connect to a network
Type the network security key or passphrase for test
The person who setup the network can give you the key or passphrase.
Security key or passphrase:
Display characters
If you have a USB flash drive with network settings for test, insert it now.
Connect
Cancel

Figure 3-21

4. You have now successfully connected to the network.

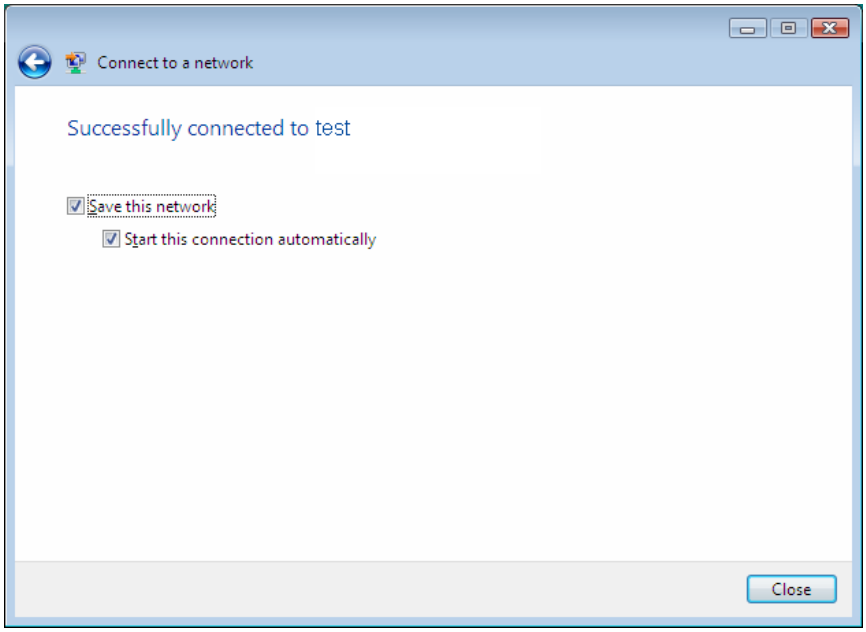

Figure 3-22

3.3.3 IN WINDOWS XP

Windows XP users may use the built-in wireless utility. Follow the steps below.

1. Right-click on the utility icon in your system tray (lower-right corner). Select **Switch to Windows wireless configuration tool**.

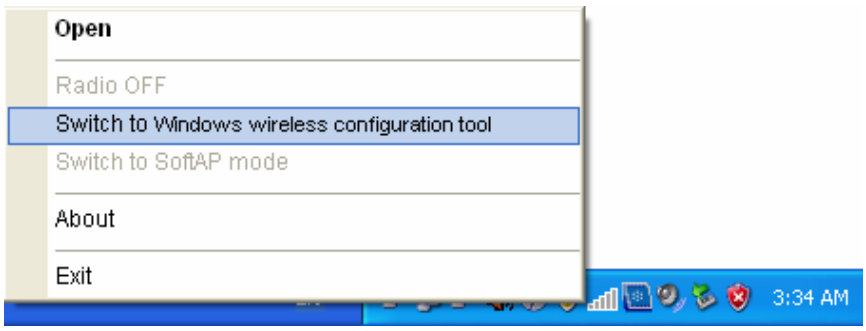

Figure 3-23

Or double-click the utility icon to load the utility configuration page. Click **Advanced** in the tools section and then select **Use Windows wireless configuration tool** in the figure shown below. Click **OK** when Figure 3-25 appears to continue.

Figure 3-24

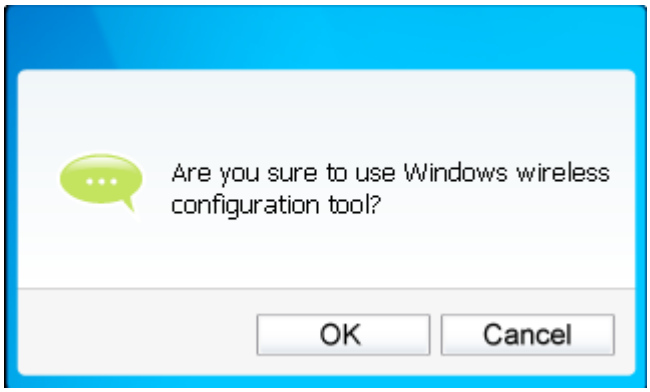

Figure 3-25

2. Right-click on the wireless computer icon in your system tray (lower-right corner). Select **View Available Wireless Networks**.

Figure 3-26

3. The utility will display any available wireless networks in your area. Click on a network (displayed using the SSID) and click the **Connect** button.

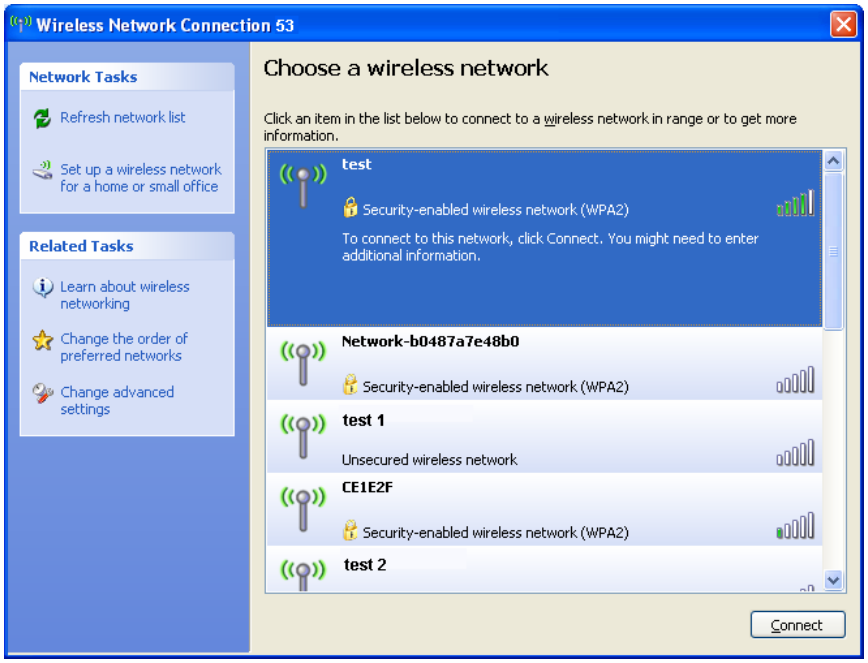
Wireless Network Connection 53
Network Tasks
Refresh network list
Set up a wireless network for a home or small office
Related Tasks
Learn about wireless networking
Change the order of preferred networks
Change advanced settings
Choose a wireless network
Click an item in the list below to connect to a wireless network in range or to get more information.
test
Security-enabled wireless network (WPA2)
To connect to this network, click Connect. You might need to enter additional information.
Network-b0487a7e48b0
Security-enabled wireless network (WPA2)
test 1
Unsecured wireless network
CE1E2F
Security-enabled wireless network (WPA2)
test 2
Connect

Figure 3-27

4. If the network is security-enabled, you will be prompted to enter the key as shown below. If not, you will connect to the network directly without entering a key.

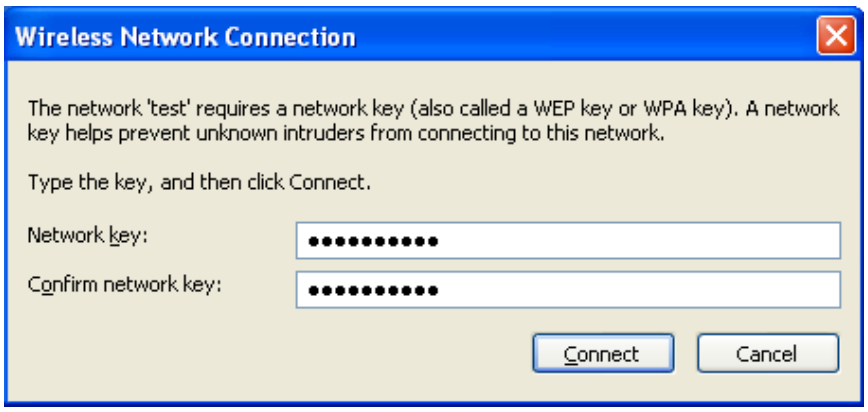
Wireless Network Connection
The network 'test' requires a network key (also called a WEP key or WPA key). A network key helps prevent unknown intruders from connecting to this network.
Type the key, and then click Connect.
Network key:
Confirm network key:
Connect
Cancel

Figure 3-28

MANAGEMENT

This section will show you how to configure your NI-707544 WIRELESS PCI ADAPTER 150N adapter using the Wireless N Client Utility.
The NI-707544 WIRELESS PCI ADAPTER 150N adapter uses the Wireless N Client Utility as the management software. The utility provides users with an easy interface to change any settings related to the adapter. Double-clicking on the icon on your desktop will start the utility.

4.1 PROFILE

Your wireless networks may vary in different places like home, office or coffee shop. With **Profile** management, you can easily save and manage various networks to be connected, saving you the trouble of having to repeat the same configurations. Click **Profile** in the tools section, the following page will appear.

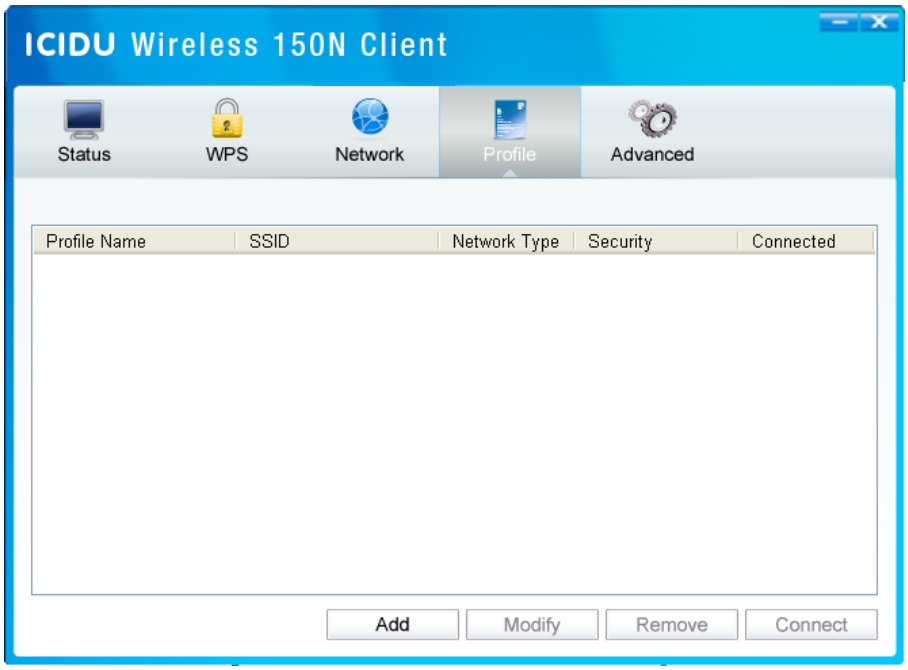

Figure 4-1

4.1.1 ADD A PROFILE

To add a profile, click the **Add** button on the bottom of the screen. Then the configuration window will appear.

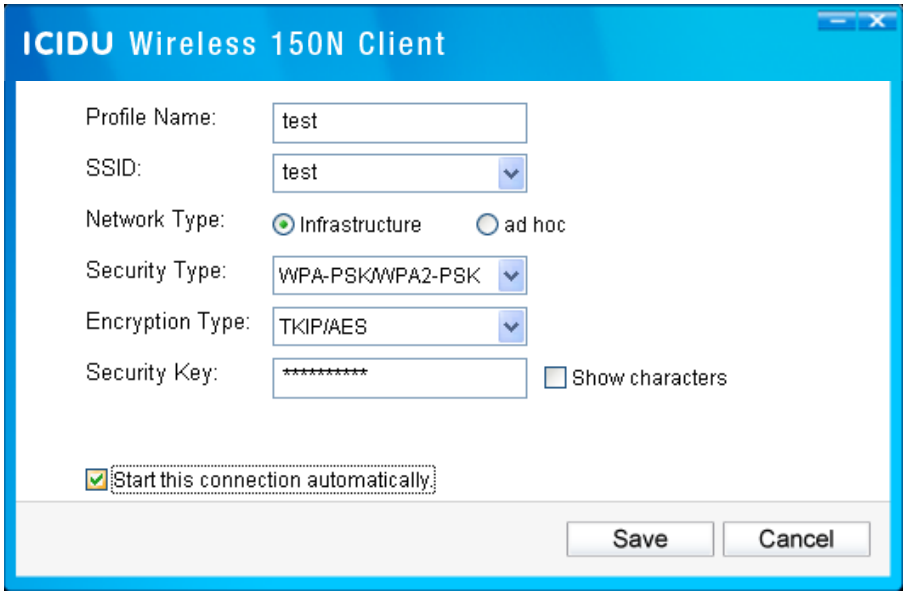

Figure 4-2

The following items can be found on the screen.

- **Profile Name:** Enter a name for your profile (e.g. Home, Office, CoffeeShop). The same name is not allowed. Please also note that no space is allowed between words.
- **SSID:** Select the target network from the drop-down list.
- **Network Type:** Select the network type. If you are connecting to a wireless router or access point, select **Infrastructure**. If you are connecting to another wireless client such as an adapter, select **ad-hoc**.
- **Security Type:** Select the security type from the list. Three options are available: **WPA-PSK/WPA2-PSK**, **WEP** and **None**. The security type should be the same as on your router or access point, otherwise, you will not be able to build a successful connection.
  WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key must be the exact same key entered on your wireless router or access point. None stands for no security. It is recommended to enable WPA-PSK/WPA2-PSK on your wireless router or access point before configuring your wireless adapter.
- **Encryption Type:** From the drop-down menu, select the encryption type that is the same as on your router or access point.
- **Security Key:** Enter the passphrase exactly as it is on your wireless router or access point. Click the **Show characters** box to see the passphrase. Unchecking it will hide it.
- **Start this connection automatically:** check this box to automatically connect to this network next time.
- **Save:** Click **Save** to save your settings.

Complete the above settings, the Profile page should look like the following figure. To connect to a desired network, just highlight the network you would like to connect to and click the **Connect** button on the bottom of the window.

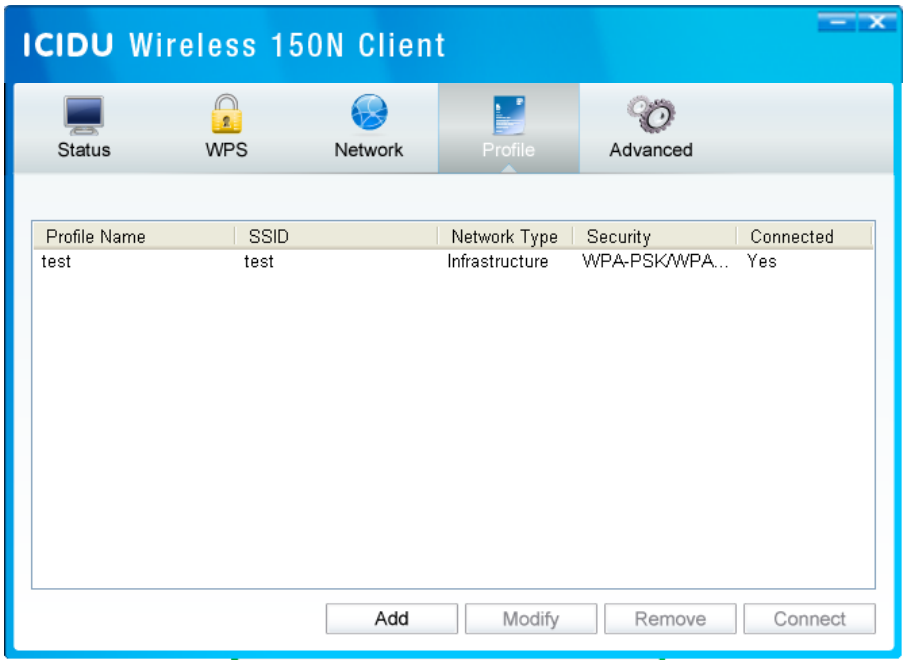

Figure 4-3

4.1.2 MODIFY A PROFILE

You may edit an existing profile by clicking the **Modify** button from the Profile page. For instance, you may like to change the profile name from test to test1 or you may want to specify another SSID for profile Home. After all the changes, click **Save** to make the changes take effect.

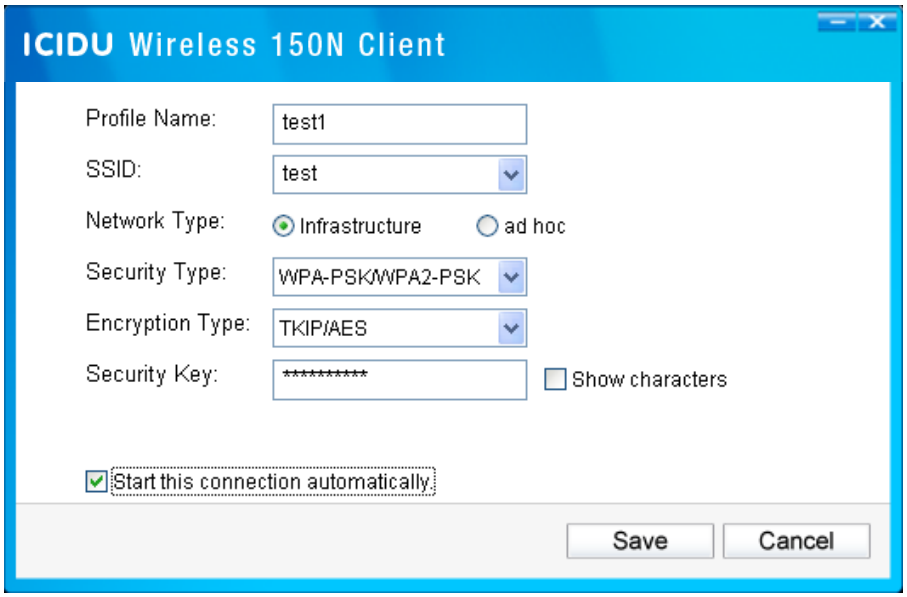

Figure 4-4

4.1.3 DELETE A PROFILE

To delete an existing profile, highlight the profile name and click **Remove** on the bottom of the screen or press the Delete button on your keyboard. When the following figure appears, click **OK** to continue.

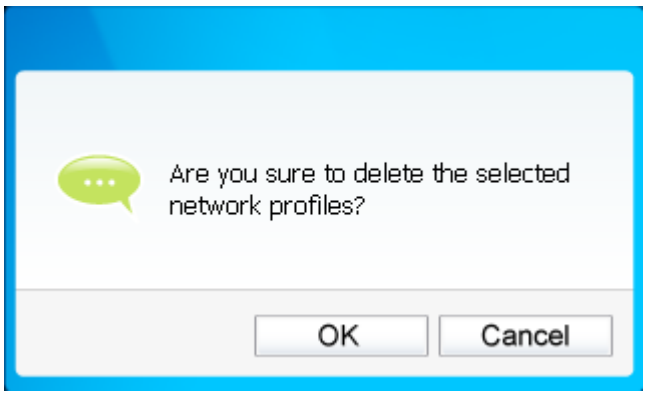

Figure 4-5

4.2 ADVANCED

The following configurations can be made on the **Advanced** page:

1) To select wireless configuration tool.
   Here you can decide which tool to use, either the Wireless N Client Utility or the Windows wireless configuration tool. This option is available only in Windows XP.
2) To switch to another wireless network adapter.
   Here you can switch to another adapter installed in your computer. The adapters successfully installed in your computer will be listed in the drop-down menu if the adapters are supported by this utility.
3) To switch to SoftAP mode.
   Once enabled, the adapter will be able to work as an AP. This option is only available in Windows 7.
4) To change the power save mode. The default option is **ON**.

Figure 4-6

4.3 ABOUT

The About screen gives you information about the Driver and Utility versions of the adapter. Right-click on the icon in your system tray and select **About** from the list.

ICIDU NI-707544 Wireless N Client utility
UI version: 1.2.2 en.003
WFF version: 1.0.0.1
Driver version: 7.7.0.547
Copyright (C) 2011 ICIDU B.V. All rights reserved.
OK

Figure 4-7

AP MODE

In Soft AP mode, the adapter will work as an AP. This function is available only in Windows7.
Suppose that only one computer in your house can access the Internet for various reasons like only one WLAN port is available on your wired broadband router, however, other wireless-capable devices also want to share the Internet. Then the adapter can be configured as an AP under the Soft AP mode, saving you the trouble of having to get a separate access point or a router.
With this feature, a computer can use a single physical wireless adapter to connect as a client to a hardware access point while at the same time acting as a software AP allowing other wireless-capable devices to connect to it.
To switch to this mode, right-click on the utility icon in your system tray and select **Switch to SoftAP mode**.

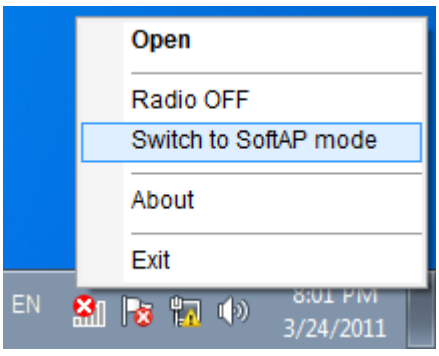

Figure 5-1

Or from the **Advanced** page of the utility, tick **ON** under the SoftAP mode as shown in the following figure. Click **OK** when prompted to confirm the setting.

Figure 5-2

The **Soft AP** icon should then appear beside **Advanced** icon in the utility.

Figure 5-3

- **SoftAP mode:** Select to enable or disable the function.
- **Internet Connecting Share(ICS):** Specify a connection through which devices connected to your AP can access the Internet.
- **SSID:** Enter the name for your soft AP (for example, Jone) so that others can know which AP is yours when trying to connect to it.
- **Security Type:** The security type here is set to be WPA2-PSK which is based on 802.11i and uses Advanced Encryption Standard instead of TKIP. It was designed to improve the security features of WEP. WPA2-PSK uses a passphrase or key to authenticate your wireless connection. You needn't make any configuration here.

- **Encryption Type:** The encryption type here is set to be AES.
- **Security Key:** Enter the Key in the field to make your AP security enabled (for example 123456789). Only by entering the corresponding key can other computers establish a successful connection with your AP.
- **IP Address:** Here displays the IP address of the SoftAP.

UNINSTALL SOFTWARE

6.1 UNINSTALL THE UTILITY SOFTWARE FROM YOUR PC

1. On the Windows taskbar, click **Start→All programs→Wireless→Uninstall Wireless N Client Utility**.

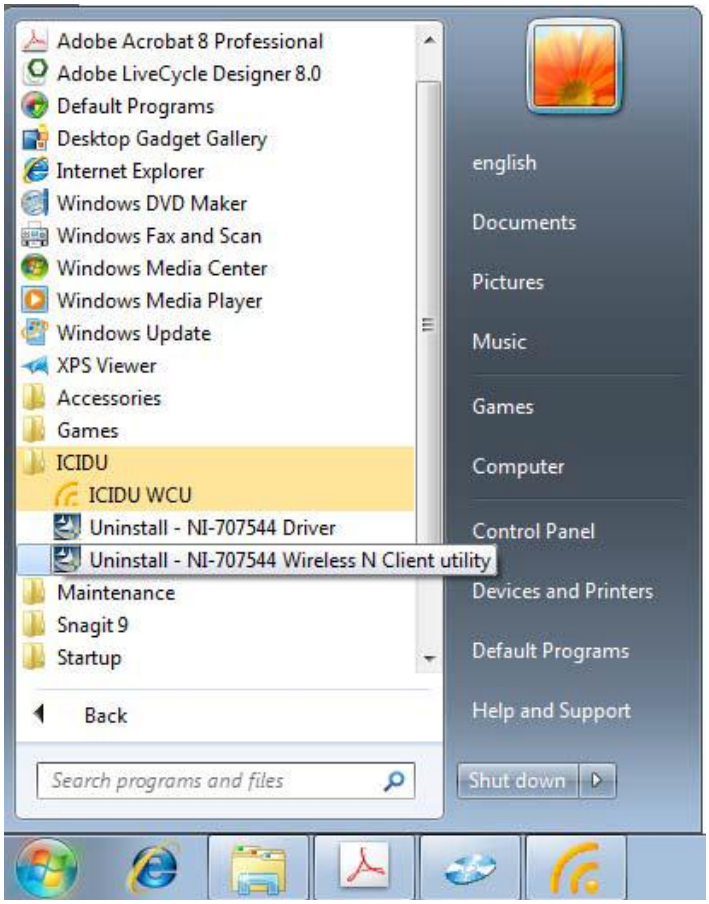

Figure 6-1 Uninstall Utility

2. Follow the Install Shield Wizard to uninstall the utility software from your PC.

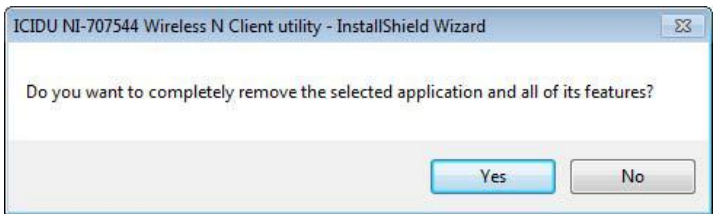
ICIDU NI-707544 Wireless N Client utility - InstallShield Wizard
Do you want to completely remove the selected application and all of its features?
Yes
No

Figure 6-2

3. Click **Finish** when the figure below appears.

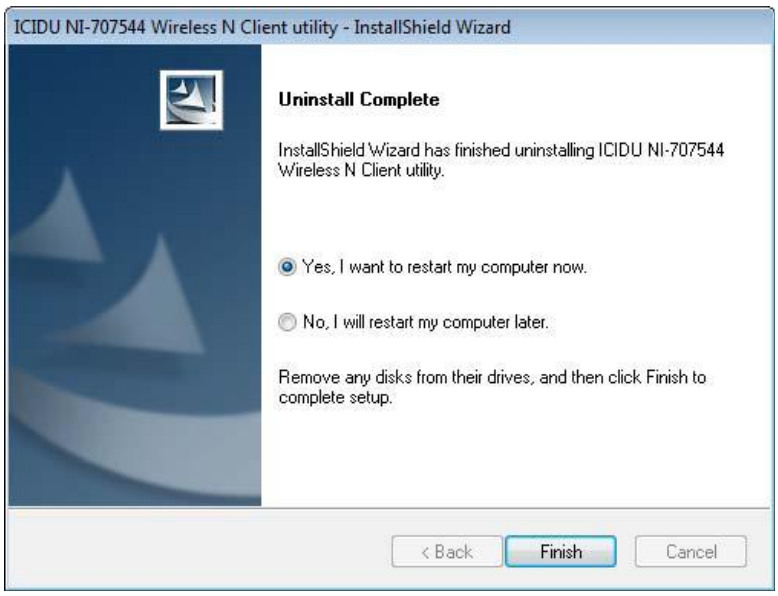
ICIDU NI-707544 Wireless N Client utility - InstallShield Wizard
Uninstall Complete
InstallShield Wizard has finished uninstalling ICIDU NI-707544 Wireless N Client utility.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

Figure 6-3

6.2 UNINSTALL THE DRIVER SOFTWARE FROM YOUR PC

1. On the Windows taskbar, click the **Start** button, click **All programs→Wireless**, and then click **Uninstall-NI-707544 Driver**.

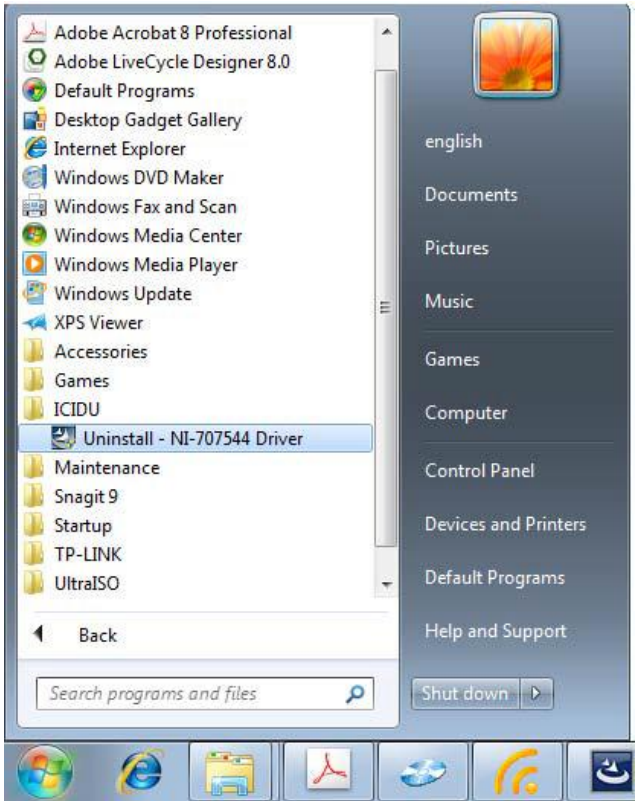

Figure 6-4 Uninstall Driver

2. Click **Uninstall** shown in above Figure 6-4, the system will uninstall the driver software of the adapter from your PC.

APPENDIX A: SPECIFICATIONS

Normal	
Interface	32 bit PCI Interface
Standards	IEEE 802.11n, IEEE 802.11g, IEEE 802.11b
Operating System	Windows XP, Windows Vista, Windows 7
Throughput	150Mbps (Maximal)
Radio Data Rate	11b: 1/2/5.5/11Mbps 11g: 6/9/12/18/24/36/48/54Mbps 11n: Up to 150Mbps
Modulation	11b:CCK,QPSK,BPSK 11g:OFDM 11n: QPSK, BPSK, 16-QAM, 64-QAM
Media Access Protocol	CSMA/CA with ACK
Data Security	WPA/WPA2, WEP, TKIP/AES
Frequency*	2.4 ~ 2.4835GHz
Spread Spectrum	Direct Sequence Spread Spectrum (DSSS)
Safety & Emissions	FCC, CE

Environmental and Physical	
Working Temperature	0℃~40℃(32℉~104℉)
Working Humidity	10% ~ 90% RH, Non-condensing
Storage Temperature	-40℃~70℃(-40℉~158℉)
Storage Humidity	5% ~ 90% RH, Non-condensing

* Only 2.412GHz~2.462GHz is allowed to be used in USA, which means only channel 1~11 is available for American users to choose.

APPENDIX B: GLOSSARY

- **802.11b -** The 802.11b standard specifies a wireless product networking at 11 Mbps using direct-sequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.
- **802.11g -** Specification for wireless networking at 54 Mbps using direct-sequence spread-spectrum (DSSS) technology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHz, and backward compatibility with IEEE 802.11b devices, and WEP encryption for security.
- **802.11n -** 802.11n builds upon previous 802.11 standards by adding MIMO (multiple-input multiple-output). MIMO uses multiple transmitter and receiver antennas to allow for increased data throughput via spatial multiplexing and increased range by exploiting the spatial diversity, perhaps through coding schemes like Alamouti coding. The Enhanced Wireless Consortium (EWC) was formed to help accelerate the IEEE 802.11n development process and promote a technology specification for interoperability of next-generation wireless local area networking (WLAN) products.

- **Ad hoc Network -** An ad hoc network is a group of computers, each with a Wireless Adapter, connected as an independent 802.11 wireless LAN. Ad hoc wireless computers operate on a peer-to-peer basis, communicating directly with each other without the use of an access point. Ad hoc mode is also referred to as an Independent Basic Service Set (IBSS) or as peer-to-peer mode, and is useful at a departmental scale or SOHO operation.

- **DSSS -** (**D**irect-**S**equence **S**pread **S**pectrum) **-** DSSS generates a redundant bit pattern for all data transmitted. This bit pattern is called a chip (or chipping code). Even if one or more bits in the chip are damaged during transmission, statistical techniques embedded in the receiver can recover the original data without the need of retransmission. To an unintended receiver, DSSS appears as low power wideband noise and is rejected (ignored) by most narrowband receivers. However, to an intended receiver (i.e. another wireless LAN endpoint), the DSSS signal is recognized as the only valid signal, and interference is inherently rejected (ignored).

- **FHSS -** (**F**requency **H**opping **S**pread **S**pectrum) **-** FHSS continuously changes (hops) the carrier frequency of a conventional carrier several times per second according to a pseudo-random set of channels. Because a fixed frequency is not used, and only the transmitter and receiver know the hop patterns, interception of FHSS is extremely difficult.

- **Infrastructure Network -** An infrastructure network is a group of computers or other devices, each with a Wireless Adapter, connected as an 802.11 wireless LAN. In infrastructure mode, the wireless devices communicate with each other and to a wired network by first going through an access point. An infrastructure wireless network connected to a wired network is referred to as a Basic Service Set (BSS). A set of two or more BSS in a single network is referred to as an Extended Service Set (ESS). Infrastructure mode is useful at a corporation scale, or when it is necessary to connect the wired and wireless networks.

- **Spread Spectrum -** Spread Spectrum technology is a wideband radio frequency technique developed by the military for use in reliable, secure, mission-critical communications systems. It is designed to trade off bandwidth efficiency for reliability, integrity, and security. In other words, more bandwidth is consumed than in the case of narrowband transmission, but the trade off produces a signal that is, in effect, louder and thus easier to detect, provided that the receiver knows the parameters of the spread-spectrum signal being broadcast. If a receiver is not tuned to the right frequency, a spread-spectrum signal looks like background noise. There are two main alternatives, Direct Sequence Spread Spectrum (DSSS) and Frequency Hopping Spread Spectrum (FHSS).

- **SSID -** A **S**ervice **S**et **Id**entification is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is typically the configuration parameter for a wireless PC card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name. *See also* Wireless Network Name and ESSID.

- **WEP -** (**W**ired **E**quivalent **P**rivacy) **-** A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard. To gain access to a WEP network, you must know the key. The key is a string of characters that you create. When using WEP, you must determine the level of encryption. The type of encryption determines the key length. 128-bit encryption requires a longer key than 64-bit encryption. Keys are defined by entering in a string in HEX (hexadecimal - using characters 0-9, A-F) or ASCII (American Standard Code for Information Interchange – alphanumeric characters) format. ASCII format is provided so you can enter a string that is easier to remember. The

ASCII string is converted to HEX for use over the network. Four keys can be defined so that you can change keys easily.

- **Wi-Fi -** A trade name for the 802.11b wireless networking standard, given by the Wireless Ethernet Compatibility Alliance (WECA, see http://www.wi-fi.net), an industry standards group promoting interoperability among 802.11b devices.
- **WLAN -** (**W**ireless **L**ocal **A**rea **N**etwork) - A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.
- **WPA -** (**W**i-Fi **P**rotected **A**ccess) **-** A wireless security protocol uses TKIP (Temporal Key Integrity Protocol) encryption, which can be used in conjunction with a RADIUS server.